

### Abstract

A trough is described for carrying molten metal, comprising an outer shell defined by a bottom wall and two side walls, an insulating layer filling the outer shell and a  
5 conductive U-shaped refractory trough body for carrying molten metal, the trough body being embedded in the insulating layer. At least one heating element is positioned in the insulating layer, adjacent to but spaced apart from the trough body, to  
10 provide an air gap between the heating element and the trough body.